

## **2. Amendments to the Claims:**

A listing of the entire set of pending claims (including amendments to the claims, if any) is submitted herewith per 37 CFR 1.121. This listing of claims will replace all prior versions, and listings, of claims in the application.

### **Listing of Claims:**

1. (Currently Amended) An electroluminescent device comprising a combination of a charge-transporting conjugated donor polymer and a phosphorescent acceptor compound dispersed in the donor polymer, the charge-transporting conjugated donor polymer having a conjugated chain including one or more odd-integer conjugated multivalent radical sub-units, each odd-integer conjugated multivalent radical sub-unit having a first and a second unsaturated radical site connecting the odd-integer conjugated multivalent radical sub-unit to a respective first and second adjacent conjugated sub-unit of the conjugated chain and a shortest uninterrupted path of unsaturated atoms connecting the first and the second radical site, the number of unsaturated atoms of the shortest path being an odd integer, wherein each of the odd-integer sub-units of the conjugated chain has a size which is sufficiently small to enable the donor polymer to have a lowest-energy triplet level of an energy of about 20,000 cm<sup>-1</sup> or higher.
2. (Original) An electroluminescent device as claimed in claim 1, wherein the number of unsaturated atoms of the shortest uninterrupted path of at least one of the odd-integer conjugated multivalent radical sub-units is 1.
3. (Previously Presented) An electroluminescent device as claimed in claim 1 wherein the conjugated chain has more than one even-integer conjugated multivalent radical sub-units and the more than one even-integer conjugated multivalent radical sub-units are incorporated in the conjugated chain such that no two even-integer conjugated multivalent radical sub-units are connected to one another.

4. (Previously Presented) An electroluminescent device as claimed in claim 1 wherein the conjugated chain has a plurality of odd-integer conjugated multivalent radical sub-units and any adjacent conjugated sub-unit which is connected to two odd-integer conjugated multivalent radical sub-units is itself an odd-integer conjugated multivalent radical sub-unit.

5. (Cancelled).

6. (Previously Presented) An electroluminescent device as claimed in claim 1 wherein each of the one or more odd-integer sub-units of the conjugated chain has a total number of unsaturated atoms less than 20.

7. (Previously Presented) An electroluminescent device as claimed in claim 1 wherein the conjugated chain includes adjacent conjugated sub-units which are not odd-integer sub-units and each of such adjacent conjugated sub-units has a size which is sufficiently small to enable the donor polymer to have a lowest-energy triplet level of an energy of about  $20,000\text{ cm}^{-1}$  or higher.

8. (Previously Presented) An electroluminescent device as claimed in claim 1 wherein the conjugated chain includes adjacent conjugated sub-units which are not odd-integer sub-units and each of such adjacent conjugated sub-units has a total number of unsaturated atoms less than 20.

9. (Original) An electroluminescent device comprising a combination of a charge-transporting conjugated donor polymer and a phosphorescent acceptor compound dispersed in the donor polymer, the charge-transporting conjugated donor polymer including a conjugated chain including one or more phenylene-based sub-units, each phenylene-based sub-unit having a first and a second radical site connecting the

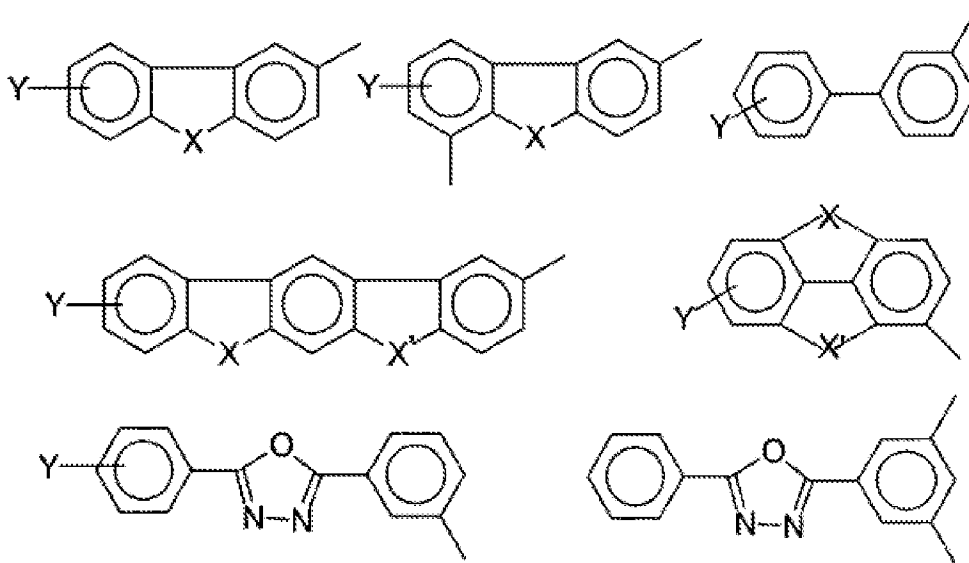
phenylene-based sub-unit to a respective first and second adjacent conjugated sub-unit of the conjugated chain, the first and the second unsaturated radical site being positioned relative to one another in a meta arrangement.

10. (Original) An electroluminescent device comprising a combination of a charge-transporting conjugated donor polymer having a lowest-energy triplet level with an energy of about  $20,000\text{ cm}^{-1}$  or higher and a lowest-energy singlet level which is at most 0.5 eV higher in energy than the lowest-energy triplet level, and a phosphorescent acceptor compound having a phosphorescent emission level with an energy of about  $20,000\text{ cm}^{-1}$  or lower.

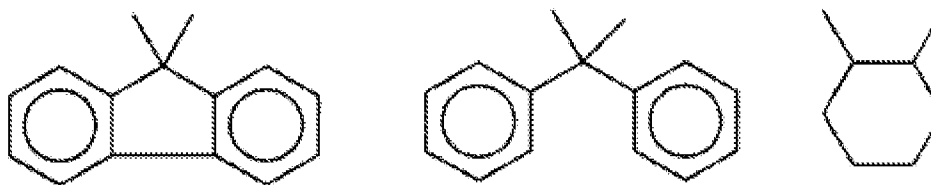
11. (Original) An electroluminescent device comprising a combination of a charge-transporting conjugated donor polymer having a lowest-energy triplet level with an energy of about  $21,000\text{ cm}^{-1}$  or higher and a lowest-energy singlet level which is at most 0.5 eV higher in energy than the lowest-energy triplet level, and a phosphorescent acceptor compound having a phosphorescent emission level with an energy of about  $21,000\text{ cm}^{-1}$  or lower.

12. (Original) An electroluminescent device as claimed in claim 1, wherein the donor polymer and the acceptor compound are integrated to form one integrated donor-acceptor polymer.

13. (Currently Amended) An electroluminescent device comprising a combination of a charge-transporting conjugated donor compound and a phosphorescent acceptor compound dispersed in the donor compound, the charge-transporting conjugated donor compound including a structural unit R in accordance with one of the formula



wherein Y is a single bond or a hydrogen, --X-- or --X'-- is, the same or different, --O--, --S--, --NH--, --CH<sub>2</sub>-- or --CH<sub>2</sub>CH<sub>2</sub>-- or wherein --X-- or --X'-- is, the same or different, --CR'R'-- wherein --CR'R'-- together represent a cyclic structure in which the carbon atom is a spiro atom or wherein --X-- or --X'-- is, the same or different, --CR'HCR'H-- with --CR'--CR'-- together representing a ring system, monocyclic or polycyclic, ~~such as fused polycyclic~~, saturated or aromatic or combination thereof, or wherein --X-- or --X'-- is, the same or different, a structural unit in accordance with one of the formula



or wherein --X-- or --X'-- is, the same or different, equal to C<sub>1</sub>-C<sub>20</sub> dialkylmethylene or --NR<sup>1</sup>-- with R is C<sub>1</sub>-C<sub>20</sub> alkyl or C<sub>4</sub>-C<sub>12</sub> aryl, ~~such as phenyl~~, and wherein one or more

aromatic --CH units may be replaced with respective nitrogen atoms and wherein one or more hydrogen atoms may be replaced with respective non-hydrogen substituents,  
wherein each of the odd-integer sub-units of the conjugated chain has a size which is sufficiently small to enable the donor polymer to have a lowest-energy triplet level of an energy of about 20,000 cm<sup>-1</sup> or higher.

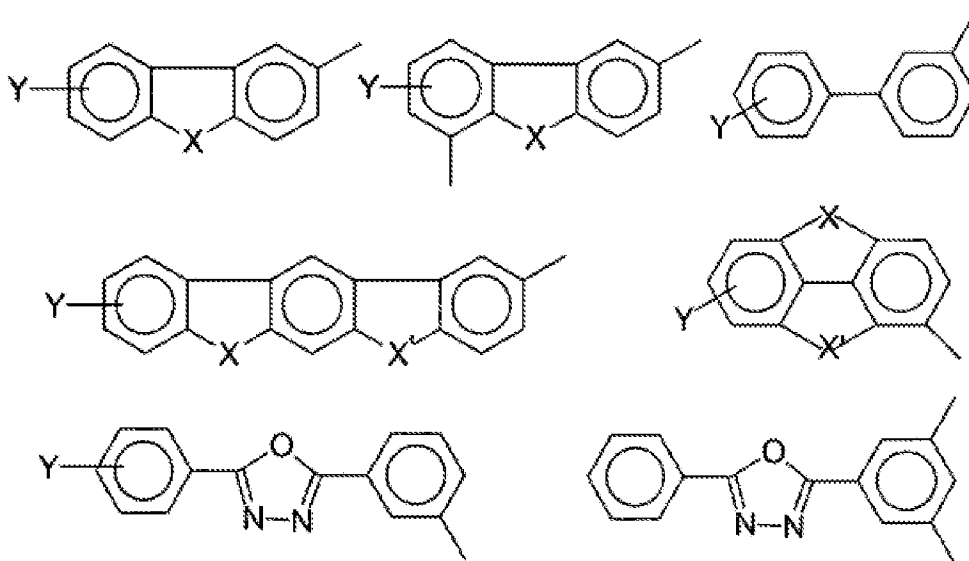
14. (Original) An electroluminescent device as claimed in claim 13, wherein the donor compound is a donor polymer having a conjugated chain comprising the structural unit R.

15. (Previously Presented) An electroluminescent device as claimed in claim 13, wherein the donor compound and the acceptor compound are integrated to form one integrated donor-acceptor compound.

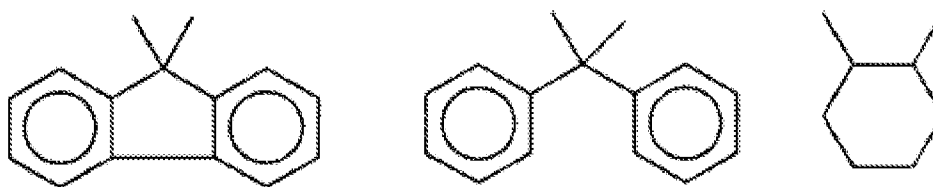
16. (Currently Amended) A combination of a charge-transporting conjugated donor polymer and a phosphorescent acceptor compound dispersed in the donor polymer, the charge-transporting conjugated donor polymer having a conjugated chain including one or more odd-integer conjugated multivalent radical sub-units, each odd-integer conjugated multivalent radical sub-unit having a first and a second unsaturated radical site connecting the odd-integer conjugated multivalent radical sub-unit to a respective first and second adjacent conjugated sub-unit of the conjugated chain and a shortest uninterrupted path of unsaturated atoms connecting the first and the second radical site, the number of unsaturated atoms of the shortest path being an odd integer, wherein each of the odd-integer sub-units of the conjugated chain has a size which is sufficiently small to enable the donor polymer to have a lowest-energy triplet level of an energy of about 20,000 cm<sup>-1</sup> or higher.

17. (Currently Amended) A combination of a charge-transporting conjugated donor compound and a phosphorescent acceptor compound dispersed in the donor compound,

the charge-transporting conjugated donor compound including a structural unit R in accordance with one of the formula



wherein Y is a single bond or a hydrogen, --X-- or --X'-- is, the same or different, --O--, --S--, --NH--, --CH<sub>2</sub>-- or --CH<sub>2</sub>CH<sub>2</sub>-- or wherein --X-- or --X'-- is, the same or different, --CR'R'-- wherein --CR'R'-- together represent a cyclic structure in which the carbon atom is a spiro atom or wherein --X-- or --X'-- is, the same or different, --CR'HCR'H-- with --CR'--CR'-- together representing a ring system, monocyclic or polycyclic, such as fused polycyclic, saturated or aromatic or combination thereof, or wherein --X-- or --X'-- is, the same or different, a structural unit in accordance with one of the formula



or wherein --X-- or --X'-- is, the same or different, equal to C<sub>1</sub>-C<sub>20</sub> dialkylmethylene or --NR<sup>1</sup>-- with R<sup>1</sup> is C<sub>1</sub>-C<sub>20</sub> alkyl or C<sub>4</sub>-C<sub>12</sub> aryl, such as phenyl, and wherein one or more aromatic --CH units may be replaced with respective nitrogen atoms and wherein one or

more hydrogen atoms may be replaced with respective non-hydrogen substituents,  
wherein each of the odd-integer sub-units of the conjugated chain has a size which is  
sufficiently small to enable the donor polymer to have a lowest-energy triplet level of an  
energy of about 20,000 cm<sup>-1</sup> or higher.

18.-19. (Cancelled).